

1638

RAW SEQUENCE LISTING      DATE: 09/14/2000  
 PATENT APPLICATION: US/09/242,843A      TIME: 14:36:05

Input Set : A:\Sequence Listing ('843).txt  
 Output Set: N:\CRF3\09142000\I242843A.raw

ENTERED

3 <110> APPLICANT: Jarrett, Paul  
 4      Ellis, Deborah  
 5      Morgan, James  
 7 <120> TITLE OF INVENTION: Pesticidal Agents  
 9 <130> FILE REFERENCE: 0380-PO1838USO  
 11 <140> CURRENT APPLICATION NUMBER: 09/242,843A  
 C--> 12 <141> CURRENT FILING DATE: 1997-11-18  
 14 <150> PRIOR APPLICATION NUMBER: PCT/GB97/02284  
 15 <151> PRIOR FILING DATE: 1997-08-27  
 17 <150> PRIOR APPLICATION NUMBER: GB 9618083.1  
 18 <151> PRIOR FILING DATE: 1996-08-29  
 20 <160> NUMBER OF SEQ ID NOS: 1  
 22 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
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 26 <212> TYPE: DNA  
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 31 <222> LOCATION: (35499)...(35519)  
 32 <223> OTHER INFORMATION: n = a or c or g or t  
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 37 agcgttaacg gtaaagagtc attcgatcc gctgtatcgc tttgtgggtt atctgggtgc      180  
 38 tgtcaatgat atgaccggaa tgaagatggg caataaaaac attagccac gagcaccgag      240  
 39 attgtacttg tatcatgcct atctctctt tatggaagcg caccggcttg aacgtccgtt      300  
 40 aacactgact aagtttggtg aatccatccc caagattatg ctggaatacc ggaaggagta      360  
 41 tcgaaaagtg cgaaceaaaga aaggctatcc ctataacgtg gaattatcgg aagaggccga      420  
 42 agaattggcta ccgtcagtcg ctgagtgtcg agactttaaa tcacctgtat aaaactttga      480  
 43 gctttaagtc tgcactccat acacaactta aaatatctaa ttgtatttaa aagaaaataa      540  
 44 tagatgtata gttatttttt aactatacat aagctctaca tgctcttcac tcgtgtaaaa      600  
 45 aatgggtgaa caggtgatac agtcagttaa tatcatatta attaccgtaa acccagatgt      660  
 46 agcaaaggctt tcaggggaatt gtgcagaggg tgcataactg agagggtgaa aaagattttc      720  
 47 aggggggctt atggcaggtg aacaaaatca gaagcaata ccgtagcaaa tctgtttttt      780  
 48 attttttggt actacctcaa attaaaatga tgaatcatc tgattttatt taagaataga      840  
 49 agttaatcac aatttcattg atggactttc attcacactg gtatagataa ataattctgt      900  
 50 tatatccctg ttcattacgc attcatcagg agtgctgtta caggagacaa gaatgtcaca      960  
 51 catcatttac ttgtcgttaa agggcaagaa gcagggttta atttcagcgg gttgttcaac      1020  
 52 gcctgaatca attggaaatc gctatcaaaa aggacgtgaa gatcaaatc aggtattgag      1080  
 53 cctgaatcat tcgatgacc gtgaccagaa tgtaaatcat caaccctgca gttttgtgaa      1140  
 54 acccattgat aaatcctctc ccctgtttgc tggatgccag tttgtgcat tacaggacaa      1200  
 55 gccagatggg acaactggag ttcttttatg aaatcaagct gaccagtgcc acgattgtgg      1260  
 56 atatttctta taattatccg gcattcaatc aatgataatg gtgcgatacc ccatgaagtg      1320  
 57 gtgatgctcg attataagtc catttcatgc aaccacatcg ccgcaggact tcgggctaca      1380  
 58 gcatacgcaa ttgcccggaa gtgaagaagc aagccgcttt tatctggggt ctcgaatgtt      1440  
 59 aagccactta agaagccgct ggttgaagaa accccggtta accccgctaa acatcatgcc      1500

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| 61  | ctgccgcatg  | gtcagataaa | agaaggaaag  | actgataaac  | aaggttacac | ccaatggcat  | 1620 |
| 62  | cttacggatg  | acaaaaataa | acttgaattt  | catattttta  | aggattaata | ccatgccagc  | 1680 |
| 63  | ctataccggt  | cagacaaaaa | tagaatccaa  | cgtacctgtt  | gaaaacctgc | tttacgactt  | 1740 |
| 64  | aaccatttat  | cgtaaggatg | caaaaaggaaa | tttccatata  | ttgcttgatg | tttttcagga  | 1800 |
| 65  | gaaactacag  | agtaattatg | aaacacaaca  | gcataatcac  | caggaaatag | acgacgatct  | 1860 |
| 66  | ttctgtgatt  | tatatattgc | aaattatgct  | tcaccgcaaa  | catggctcaa | atatatttcc  | 1920 |
| 67  | ggcactgcaa  | acccatttta | agaaaatgta  | taccctcggt  | gaattaaact | ccggttaaagc | 1980 |
| 68  | ctgttcggag  | aaaaaacggg | aaaatgcctg  | ttattttgaa  | agtacagttg | aaacaaaacc  | 2040 |
| 69  | tgacagcgac  | ggggataata | ccgttgactt  | aaatatcact  | attcctgaac | gaccttttat  | 2100 |
| 70  | tgccaaagaa  | tatcccattg | gtcaccacca  | cgatccattt  | gaaaaaagta | aaattgaatc  | 2160 |
| 71  | ataaatacac  | gacaggttat | cgaaaagaat  | ttatccggat  | caaaatggag | caagtttatg  | 2220 |
| 72  | tcaggggcgc  | agcacactat | tttagctgcg  | tttttaagat  | gattatctct | taatgttcag  | 2280 |
| 73  | ttttaatagt  | gtttttatcg | agtgaatttt  | aatcgacacg  | gcaattcttt | agacttttat  | 2340 |
| 74  | agaaaaactaa | agaatttaag | aacaagattg  | acatttttaag | ttcaaatatt | aatcaaaagta | 2400 |
| 75  | tgctcgccgc  | ctgagtttat | gtggccctgc  | cgcttttttt  | tattgcctgc | caatagatag  | 2460 |
| 76  | accagatatt  | tatgagcaag | cggcaccgaga | attatggcaa  | tatggccgaa | ctaaaattgg  | 2520 |
| 77  | tcaactggaa  | attaagccgg | gtgaggggtg  | ccgacatcct  | aaaggtaact | tttataatca  | 2580 |
| 78  | atatggtgaa  | agaatatctg | ggttagattg  | gctgacattg  | gcaagcctaa | gagattcaga  | 2640 |
| 79  | aaatatgatt  | atgaggttga | tgatgaagta  | gctggtatta  | caatgtgggg | aaaattgaca  | 2700 |
| 80  | gaatgggttg  | aaaaatcagg | gtatgaaaaa  | gtatttagta  | atgtcggctt | atcccatctt  | 2760 |
| 81  | aatataaatg  | acatagtaac | tcttagtgat  | tactataaca  | aaggatatca | tggtgttact  | 2820 |
| 82  | ttgatttcag  | caggaatggt | atcagatttt  | ggtgacatag  | aaacatcagg | aaaaaatcat  | 2880 |
| 83  | tggtatagtt  | gggaaggagt | agtagaaaac  | tatgagaaa   | aaaatatcac | aaataattca  | 2940 |
| 84  | gatctgaatc  | aatatgtaaa | tttaaatctg  | ttttcatggg  | gtaaagtggg | acatcaaatt  | 3000 |
| 85  | aaaaaaaaca  | aataactaga | ttatgtactc  | aaccatattt  | tttgagggtt | ggtttttaaa  | 3060 |
| 86  | ccaatgaaat  | aacatgaaaa | aaatattaat  | tatttttatt  | tttttacttt | atgggttgtyg | 3120 |
| 87  | taatccaacg  | ccaaaagtgt | taccaaaatc  | agagtttctt  | cctgatgcag | tgataaatga  | 3180 |
| 88  | accatatcag  | gcatacatca | ccatcacagg  | aggtgcattg  | aatgaaaaaa | gcgtttgggt  | 3240 |
| 89  | aaaaattcat  | cctactggct | caggactaac  | atggaaatcca | aaagatagtt | ctttccatata | 3300 |
| 90  | gggtggaaaa  | aaagaaataa | gaaaagatta  | tcatacatata | aatataacag | gtaccccaaa  | 3360 |
| 91  | gaagacagaa  | ttgataaaaa | ttgaagtggg  | aggatttaca  | ttgggtacaa | tgtacgcacg  | 3420 |
| 92  | gaaagagttc  | actataaaat | atactataaa  | agtaagggaa  | taattgtcac | tatcagaatg  | 3480 |
| 93  | gtgatttaat  | tcgccatttt | tatacttttg  | tatactctct  | caacataatc | aggattcttt  | 3540 |
| 94  | cttattattt  | ttcatggtgc | taaaaacggt  | tattgcaaaa  | ataaattaag | ttaatcagat  | 3600 |
| 95  | aaattatctg  | cattactggt | ataatcgata  | acacgataac  | ctgactttct | gcctgttctt  | 3660 |
| 96  | atgaactcga  | agataatcct | ttctgagcct  | gaacgaatca  | cattgcaacc | actcgctttg  | 3720 |
| 97  | aatcacccac  | accgggacat | tcgtacgcga  | ggaacgggtt  | tactcatgct | tgccagaggg  | 3780 |
| 98  | agcaagccgt  | cccagatcac | cgtgaaatc   | ggatgcagtc  | tccgggttat | ctgtaattgg  | 3840 |
| 99  | gttcacatgt  | ggcacagata | gcgggattat  | tcggcgggtca | tgccggaggc | cggtatctcg  | 3900 |
| 100 | ccatgacgoc  | tgacatgatt | gccactgcgc  | tcgaagccgc  | cagcgcagag | tccttgacgt  | 3960 |
| 101 | gcgtcgaaag  | caggcagggt | ttccctgect  | tgtagccttg  | aaacgctggc | gaataccctg  | 4020 |
| 102 | aaaaaacagg  | ggctccccta | taaacgcccc  | cgctgtgcgc  | ttaaaaaaag | cgcaataaaa  | 4080 |
| 103 | cggagtttgc  | tgaaaaatcc | gccttgctga  | ataaaattaa  | ggccggagca | cagtcaggac  | 4140 |
| 104 | attaccgtct  | ggtctatttt | gagttctggg  | ggcgttaaat  | tacacggata | acacgctggt  | 4200 |
| 105 | ttaccagaca  | acgtcaggca | gtatcacgcg  | agatgaactg  | attgattttt | tagagccggg  | 4260 |
| 106 | ggccagacaa  | gggacaacgg | cctgacattt  | ttagtgttgg  | ataatgcgcg | tatccatcac  | 4320 |
| 107 | gggatagagg  | aaaaaatcag | aaatggcggg  | tgacgagaac  | acaacctgtt | ttattcttat  | 4380 |
| 108 | cttcccgcct  | acagcccaga | gctgtatctg  | attgaaatcg  | tctggaaaca | ggccaaatac  | 4440 |

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| 110 | ttgaaaaggt  | atggcgacca | atttgcaatt  | aacttttctt  | gagtacttag  | taagaataga  | 4560 |
| 111 | gtcagtcgag  | gttttttcat | tccgggtcgt  | ggggatgata  | ctgaaaaattt | gtttgtaatc  | 4620 |
| 112 | tctgaaaaat  | gctgtttctg | tggtacgtc   | tgtcttttgg  | gatatgttt   | ccatcaagtc  | 4680 |
| 113 | tgtcaacata  | ctgttaagtt | agatgttgat  | aaaagagact  | gaattataat  | acaaaacaat  | 4740 |
| 114 | aatcactctg  | gacaatattt | tatttcacat  | gagacattaa  | ggttgatttt  | cccaatctgg  | 4800 |
| 115 | tcagttataa  | ccgaataagg | atcttgaaaa  | atcatgggat  | cttactttta  | tcaaatgaag  | 4860 |
| 116 | ttaacgtaaa  | agttgataaa | gaaaattatt  | taattctaag  | tgccgttggc  | ataaatattt  | 4920 |
| 117 | tgtgttttgt  | taatgaatga | ataaccaggt  | aagctggatt  | ttcatttttt  | aattactcgt  | 4980 |
| 118 | tacaatatgc  | tatttattta | tataaagagt  | ttgtgcccct  | ttaaccagta  | aacaaatttg  | 5040 |
| 119 | ttcaaccgta  | acttagcttc | atcgactttt  | ggcctcgccct | ggtcagaatc  | tagggccggt  | 5100 |
| 120 | atcctattta  | tttatgataa | ataaaattta  | attatcttta  | ataagctgaa  | tatgtggatt  | 5160 |
| 121 | tgtgctcaat  | cttggttcca | agtatgtatt  | ccttttggtta | ccttgcttta  | ttttaagga   | 5220 |
| 122 | gatgaagagg  | atgccaacat | gacacaatat  | cgattacgac  | tgtaacatta  | aagtcagtta  | 5280 |
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| 124 | atagcatcct  | ctttaatatc | attaatctca  | gataaaacaa  | ataattacaa  | tgtgaataga  | 5400 |
| 125 | ataatgactt  | acaaaataag | cactaaatct  | tcagatgaac  | tcttaactga  | caacactatt  | 5460 |
| 126 | ttataaaaata | attgaggtta | ttatgtatag  | cacggctgta  | ttactcaata  | aaatcagtc   | 5520 |
| 127 | cactcgcgac  | ggtcagacga | tgaactcttc  | ggatctgcaa  | tatttatcct  | tcagtgaact  | 5580 |
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| 130 | acaattatcc  | ggtgctatcc | gactcgggat  | tgaacgagac  | agcggtttcac | gcagtattga  | 5760 |
| 131 | tgaatgtttt  | ggtgcccgtt | cttcttcctt  | tgtgaaaccc  | ggttcagttg  | cttccatggt  | 5820 |
| 132 | ttcacccggt  | ggctatctca | ccgaattgta  | tcgtgaagcg  | aaggacttac  | atttttcaag  | 5880 |
| 133 | ctctgtttat  | catcttgata | atcgccgtcc  | ggatctggct  | gatctgactc  | tgagccagag  | 5940 |
| 134 | ttaatgtgat  | acagaaattt | ccaccctgac  | actgtctaac  | gaactgttgc  | tggagctatt  | 6000 |
| 135 | acccgcgaaga | ccggaggtga | ttcggaacga  | ttgatggaga  | gcctgtcaac  | ttaccgtcag  | 6060 |
| 136 | gccattgata  | ccccttacca | tcagcccttac | gagactatcc  | gtcagggtcat | tatgacccat  | 6120 |
| 137 | gacagtacac  | gttcagcgct | gtcccgtaat  | cctgaggtga  | tggggcaggc  | ggaaggggct  | 6180 |
| 138 | tcattactgg  | cgattctggc | caatatttct  | ccagaactgt  | ataacatttt  | gaccgaagag  | 6240 |
| 139 | attacggaaa  | agaacgctga | tgtcttattt  | gcgcaaaact  | tcagtgaata  | tatcacgccc  | 6300 |
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| 142 | aatatctcaa  | cgggtttagt | ggtcaataat  | gaaagtaaac  | tcgaagctta  | caaaaataaca | 6480 |
| 143 | cgtgtaaaaa  | cagatgatta | tgataaacat  | gtaaattact  | ttgatctgat  | gtatgaagga  | 6540 |
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| 147 | aaaatatatg  | octatcgcta | tacgtcttcc  | accagcgcca  | caaatcaggg  | cgccggaata  | 6780 |
| 148 | ttcaactttt  | agtcttatcc | cctgactata  | tttgcgctca  | aaactgaata  | agccattcgc  | 6840 |
| 149 | ttgtgcctga  | ctagcgggct | ttcacccgaat | gaactgcaaa  | ctatcgtacg  | cagtgaacaat | 6900 |
| 150 | gcacaaggca  | tcatacaaga | ctccgttctg  | accaaagttt  | tctatactct  | gttctacagt  | 6960 |
| 151 | caccgttatg  | cactgagett | tgatgatgca  | cagggtactga | acggatcggt  | cattaatcaa  | 7020 |
| 152 | tatgcccgcg  | gatgacagtg | tcagtcattt  | taaccgtctc  | tttaataccc  | cgccgctgaa  | 7080 |
| 153 | agggaaaaatc | tttgaagcgg | acggcaacac  | ggtcagcatt  | gatccggatg  | aagaacaatc  | 7140 |
| 154 | taccttttgc  | cgttcagccc | tgatgcgtgg  | tctggggatc  | aacagtggtg  | aactgtatca  | 7200 |
| 155 | gttaggcaaa  | ctggcgggtg | tattggacac  | acaaaatata  | ctcacacttt  | ctgtccctgt  | 7260 |
| 156 | tatatcttca  | ctgtatcgcc | tcacgttact  | ggcccgtgcc  | catcagctga  | cggttaatga  | 7320 |
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|     |            |             |             |             |             |            |       |
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| 159 | cggaaatcac | cactgaagcg  | atctggttat  | tatgtacgcc  | agagttcagc  | gggaatattt | 7500  |
| 160 | caccggaat  | cagtaatctg  | cttaatactc  | tccgaccccg  | tattagtga   | gacatggcac | 7560  |
| 161 | aaagtagtga | cgggagctt   | caggctgaaa  | ttctcgccgc  | gtttattgct  | gcaacgctgc | 7620  |
| 162 | atctggcgct | accagatag   | gcgcggtata  | tcctgttggt  | gactgataac  | ctgcggccgg | 7680  |
| 163 | ggggcctgaa | tatcgccgga  | tttatgatgc  | tggtgctgaa  | agagacgctg  | agtgatgagg | 7740  |
| 164 | aaacgaccca | actggttcaa  | ttctgccatg  | taatggcaca  | gttatcgctt  | tcctgacaga | 7800  |
| 165 | cactgcgtct | cagtgaaagca | gagctttctg  | tgctggctcat | ttccgatttt  | gtggtagctg | 7860  |
| 166 | gtgcgagaag | ccaaccgcg   | gacaacacaa  | tattgatact  | ctgttctcac  | tctaccgatt | 7920  |
| 167 | ccaccagtgg | attaatgggc  | tggaatctcc  | cggtctgtac  | acgctgggata | tgctgcgcca | 7980  |
| 168 | agcagacact | cacggcgac   | agactgggccc | tcctgtgatg  | ggctggacat  | cagtatggta | 8040  |
| 169 | acgcaggcca | tggtttccc   | cggcggtgaa  | ccaacttcag  | tggtggcagg  | atatcaacce | 8100  |
| 170 | cggtttgcag | tggtatcatg  | tggtatcagc  | actgctcact  | gatgcgctcg  | gttatccgta | 8160  |
| 171 | cgctggtgaa | tatccgttac  | gtgactgcat  | taaaacaaag  | cgagtcgaat  | ctgcctgcct | 8220  |
| 172 | gggataagtg | gcagacgctg  | gcagaaaata  | tggcagccgg  | actgagtaca  | caacaggctc | 8280  |
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| 174 | cgaatatcca | gccagaaggg  | gtgtccctgc  | acagccggga  | tgacctgtac  | agctatttcc | 8400  |
| 175 | tgattgataa | caggtctctc  | tcctgccata  | aaaccacccg  | actggcagag  | gccattgccc | 8460  |
| 176 | gtattcagct | ctacatcaac  | cggtcgctga  | accggataga  | gcctaattgcc | cggtccgatg | 8520  |
| 177 | tgtaaccccg | ccagtttttt  | accgactgga  | cggtgaataa  | ccgttacagc  | acctggggcg | 8580  |
| 178 | gggtgtcgcg | gctgtgttat  | tatccggaaa  | attacattga  | cccgaaccag  | cgatcgggc  | 8640  |
| 179 | agaccgggat | gatggatgaa  | ctgctggga   | atatcagcca  | gagtcagctc  | agccgggaca | 8700  |
| 180 | cggtggaaga | ggccttttaa  | acttaacctg  | ccgcttgtaa  | accgtggcag  | acctgaaagt | 8760  |
| 181 | tgtaacgct  | atcacggaca  | acgtcaacag  | caacaccgga  | ctgacctggt  | ttgtcgggca | 8820  |
| 182 | aacgcgggag | aacctgccc   | aatattactg  | gcgtaacgtg  | catatatcac  | ggatgcaggc | 8880  |
| 183 | gggtgaaact | gcccgcgatg  | cctggaaaag  | ttggacgaag  | attgatacag  | cggtcaacce | 8940  |
| 184 | atacaaggat | gcaatcacgc  | cggtcataat  | cagggaaact  | ttgcacctta  | tcgtgggtag | 9000  |
| 185 | aaaaagagga | agtggcgaaa  | aatgttactg  | atccggtgga  | aacctatgac  | cgttttactc | 9060  |
| 186 | tgaaactggc | gtttctgcgt  | catgatggca  | gttggaagtgc | ccctgtgtct  | tacgatatac | 9120  |
| 187 | caacgcaggt | ggaggcggtc  | actgacaaaa  | aacctgacac  | tgaacggctg  | gcgtggcccg | 9180  |
| 188 | catcaggctt | tcaggggcag  | gatactctgc  | tggtgtttgt  | gtacaaaacc  | gggttgagtt | 9240  |
| 189 | acccggtatt | tggcgacaa   | aataaaaatg  | tggcaggcat  | gaccatttac  | ggcgatggct | 9300  |
| 190 | ccttcaaaaa | gatggagaac  | acagcaactc  | gcgttacagc  | caactgaaaa  | atacctttga | 9360  |
| 191 | tatcattcat | actcaaggca  | acgacttggt  | aagaaaggcc  | agctatcggt  | tcgcgcagga | 9420  |
| 192 | ttttgaaagt | cctgcctcgt  | tgaatatggg  | ttctgccatc  | ggtgatgata  | gtctgacggt | 9480  |
| 193 | gatggaaaac | gggaatatct  | cgcagataac  | cagtaataac  | tcacgcgata  | accttgctat | 9540  |
| 194 | tacgtcatat | aacgcgcgtt  | tcactgtcag  | atatgatggc  | agtggcaatg  | tcacagaaa  | 9600  |
| 195 | caaacaaatc | agcgccatga  | aactgacggg  | gttgatgaa   | agtcccagta  | cgccaatgca | 9660  |
| 196 | tttatcatcg | caaataccgt  | taaacattat  | ggcggttact  | ctgatctggg  | gggcccgatc | 9720  |
| 197 | accggtttta | ttaaaacgga  | aaaactatat  | tgcatcagtt  | caaggccact  | tgatgaacgc | 9780  |
| 198 | agattacact | aggggtttga  | ttctaaccac  | agttgaaaat  | aattattatg  | ccagattggt | 9840  |
| 199 | cgagtttcca | ttttctccaa  | acacaatttt  | aaacaccggt  | ttcacggttg  | gtagcaataa | 9900  |
| 200 | aaccagtgat | tttaaaaagt  | gcagttatgc  | tggtgatggt  | aataattctc  | agggcttcca | 9960  |
| 201 | gatatttagt | tcctatcaat  | catccggctg  | gctggatatt  | gacacaggta  | ttacaataac | 10020 |
| 202 | tgatgtcaaa | attacggtgg  | tagctggcag  | taaaaccac   | acctttacgg  | ccagtgaaca | 10080 |
| 203 | tattgcttcc | ttgcccggca  | acagttttga  | tgctatgcgg  | tacaccttta  | agccactgga | 10140 |
| 204 | aatcgatgct | tcacgtttgg  | cctttaccaa  | taattatgct  | cctctggata  | tcgtttttga | 10200 |
| 205 | gaccaaaagc | aaagacgggc  | gagtgctggg  | taagatcaag  | caaacattat  | cggtgaaacg | 10260 |
| 206 | ggtaaatatt | aatccggaag  | atattctggt  | tcctgcgtgaa | actcattcgg  | gtgcccaata | 10320 |

RAW SEQUENCE LISTING      DATE: 09/14/2000  
 PATENT APPLICATION: US/09/242,843A      TIME: 14:36:05

Input Set : A:\Sequence Listing ('843).txt  
 Output Set: N:\CRF3\09142000\I242843A.raw

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207 tatgcagctg ggggtgtatc gtattcgtct taataccctg ctggcttctc aactgggtatc 10380
208 cagagcaaac acgggcattg atactatcct gacaatggaa acccagcggg taccggaacc 10440
209 tccgttggga gaaggtctct ttgccaactt tgttctgcct aaatatgacc ctgctgaaca 10500
210 tggcgatgag cgggtgttta aaatccatat cgggaatggt ggcggttaaca cgggaaggca 10560
211 gocttattac agcggaatgt tatccgatac gtcggaaacc agtatgacac tgtttgtccc 10620
212 ttatgccgaa ggggtattaca tgcattgaag gtccagattg ggggttggat accagaaaaa 10680
213 taccatgac aacacttggg aatctgcttt cttttatttt gatgagacaa aacagcaatt 10740
214 tgtattaatt aacgatgctg atcatgattc aggaatgacg caacagggga tcgtgaaaaa 10800
215 tatcaagaaa tacaaaggat ttttgaatgt ttttatcgca acgggctatt ccgccccgat 10860
216 ggatttcaat agtcccagcg cctcttatta ctgggaatgt tctattacac cccgatgatg 10920
217 tgcctccagc gtttgctaca ggaatacaaa ttccagcaag ccacacaatg gataaactac 10980
218 gtctataatc ccgcccggta tatcgtaaac ggagaaatcg ccccttggat ctggaactgc 11040
219 cggccgctgg aagagacact cctggaatgc caatccgttg gatgccattg atccggatgc 11100
220 cgtcgacaaa tatgaccoga cacactataa agttgcccac tttatgcgco tggttgatca 11160
221 acttattctg cgcggcgata tggcctatcg cgaactgacc cgcgatgcgt tgaatgaaagc 11220
222 caagatgtgg tatgtgcgtg ctttggaaat gctgggtgat gagccggagg attaccggcag 11280
223 caacacagtg gcccgaccgt ctcttccgtg ggcgggcaac cacactgtgc aagcgggcta 11340
224 tcaacaagac cttacggcgc tagacaacgg agaagggtgc actcaacccc gcaacgctaa 11400
225 ctcgttgggt gtttggctct gccggaatat aaccgggaat caaccgatta ctggcaaac 11460
226 tgcgttggcg cctggttaac ctgcgccata atccttccat gacgggcaac cgttatcgct 11520
227 ggcgaattac gcgagcctac gatccgaaag cgtgctcac cagtatggta cagccttctc 11580
228 agggcggtag tgcagtgcgt cccggcacat tgcgttata ccgcttcccg gtgatgctgg 11640
229 agcggggccc caatctggta gcgcaattaa cccagttcgg caactctctg ctcagtatgg 11700
230 cagagcatga tgaatgcgat gaactcacca cgttgcact acagcaggg atggaactgg 11760
231 cgacacagag catcctgatt cagcaacgaa ctgctgatga agtggatgct gatattgctg 11820
232 tattggcaga gagccgcgcg agtgacaaa atcgtctgga aaaataccag cagctgtatg 11880
233 acgaggatat caaccacgga gaacagcgtg cgaatgtcact gtttgatgcg gcggcaggtc 11940
234 agtctctggc cgggcagggc ctctcagtag cagaaggggt ggcgtactta gttccaaacg 12000
235 tgttcgggtt cgcttggggt ggcagtcgtt ggggggcagc actgcgtgct tccgcctccg 12060
236 tgaatgcgtt ttctgccaca gcttcccaat attccgcaga caaaatcagc cgttcgggaag 12120
237 cctaccgcgc cgcgcgcgag gactgggaaa ttcagcgtga taatgctgac ggtgaagta 12180
238 aacaaatgga tgcacagctg gaaagcctga aaatacgcgg cgaagcagca cagatgcagg 12240
239 tggaaatata ggagaccagc caggcccata ctcaggctca gttagagctg ttacagcgt 12300
240 aattcacaaa caaagcgtt tacagttgga tgcgcggcaa gctgagtgct atctattacc 12360
241 agttctttga cctgaccag tccttctgco tgaatggaca ggaagcgtg cgcgcgagc 12420
242 tgaccgacaa cgggtgtacc ttatccggg gtggggcctg gaacggtacg actgcgggtt 12480
243 tgaatggcgg tgaaacgttg ctgctgaatc tggcagaaat ggaataagtc tggctggagc 12540
244 gtgatgagcg ggcactggaa gtgaccgta ccgtctcgtt ggcacagttc tatcaggcct 12600
245 tatcatcaga caactttaat ctgaccgaaa aactcacgca attcctgctg gaagggaaa 12660
246 gcaacgtagg agcttccggc aatgaattaa aactcagtaa ccgccagata gaagcctcag 12720
247 tgcgattgtc tgatttgaat attttcagcg ataccccgga aagctttggc aatacccgtc 12780
248 agttgaacaa agtgagtgtc accttgccgg cgtggttgg tccgatgaa gatattccgg 12840
249 cgggtgctga ttacggcggc agcatcgta tgcacgcgg ttgcagtgct attgctctct 12900
250 cccacggcgt gaatgacagt ggtcaattta tgcgtgattt caacgattcc cgttatctgc 12960
251 cgtttgaagg tatttccgtg aatgacagcg gtgacctgac gttgagtttc ccggatgcga 13020
252 ctgatcgaca gaaagcgtg ctggagagcc tgagcgatat cattctgcat atccgctata 13080
253 ccattcgttc ttaattaaaa cattgtgata ggcaggtccc tgaggagacc tgtttaagga 13140
254 gtttttatgc aggttcaac accttgaaa cttgaaatac cgtcattgcc ctctgggggc 13200
255 ggaactacaa aaggaaatgg agaagcactc aatgcctgct gagcggaagg ggagcgtcat 13260

```

FYI

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY                      DATE: 09/14/2000  
PATENT APPLICATION: US/09/242,843A              TIME: 14:36:07

Input Set : A:\Sequence Listing ('843).txt  
Output Set: N:\CRF3\09142000\I242843A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1